ScanPartner 600C
Image Scanner

User's Manual

Version 1.0

Fujitsu Computer Products of America, Inc.

Notice

FCC Class B Computing Devices

(Federal Communications Commission Radio Frequency Interference statement)

This equipment has been tested and found to comply with the limits for class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which is determined by turning the equipment off and on, the user is encouraged to attempt to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a separate or dedicated circuit.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION: Any changes or modifications not expressly approved by the manufacture of this device could void the user's authority to operate the equipment.

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Introduction

Congratulations on your purchase of the Fujitsu ScanPartner 600C scanner.

Before you install and operate the new scanner, please take a few minutes to read through this manual. It provides you with the proper instructions on how to unpack, install, operate and maintain the scanner.
Figure 1-1 shows how the scanner is packed. You can check all items against your c*hecklist*.

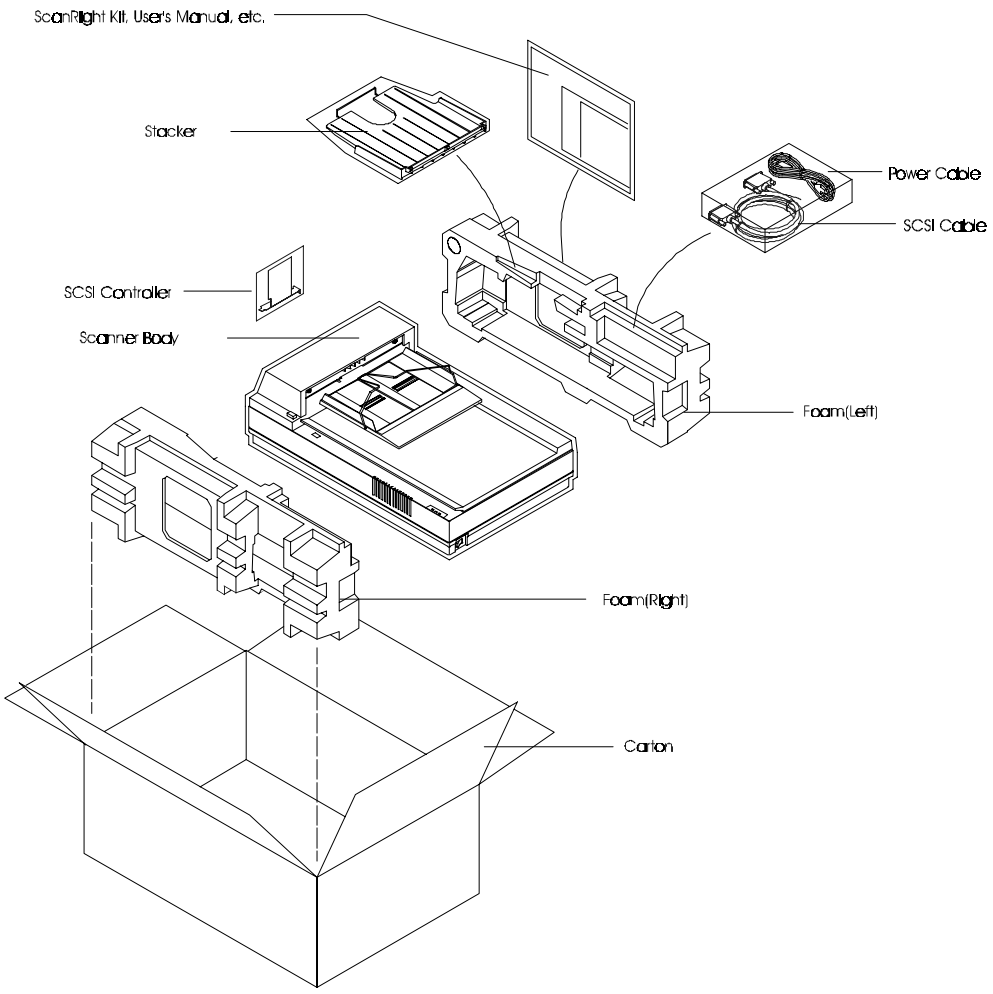

Figure 1-1 Scanner packing

1. Scanner Installation

1.1 Precautions

- Keep the scanner out of direct sunlight. Direct exposure to the sun or excessive heat may cause damage to the unit
- Do not install the scanner in a humid or dusty place
- Be sure to use the proper AC power source
- Place the scanner securely on an even, flat surface. Tilted or uneven surfaces may cause mechanical or paper-feeding problems
- Retain the scanner box and packing materials for shipping purposes

1.2 Assembling the Scanner

Please unpack the scanner carefully, and check the contents against the checklist provided. If any items are missing or damaged, please contact your authorized local dealer immediately.

Removing the Shipping Retainer

Your ScanPartner 600C comes with a factory installed shipping retainer designed to protect the scanner during shipment. Before your scanner can be used, the shipping retainer must be removed. Follow these instructions to remove the shipping retainer:

1. Lay the scanner on its side as shown in Figure 1-1
2. Unscrew the retainer screw and remove the shipping retainer
3. Place the shipping retainer in the "use position" slot and secure it with the retainer screw (see Figure 1-2)
4. Place scanner back in its normal position

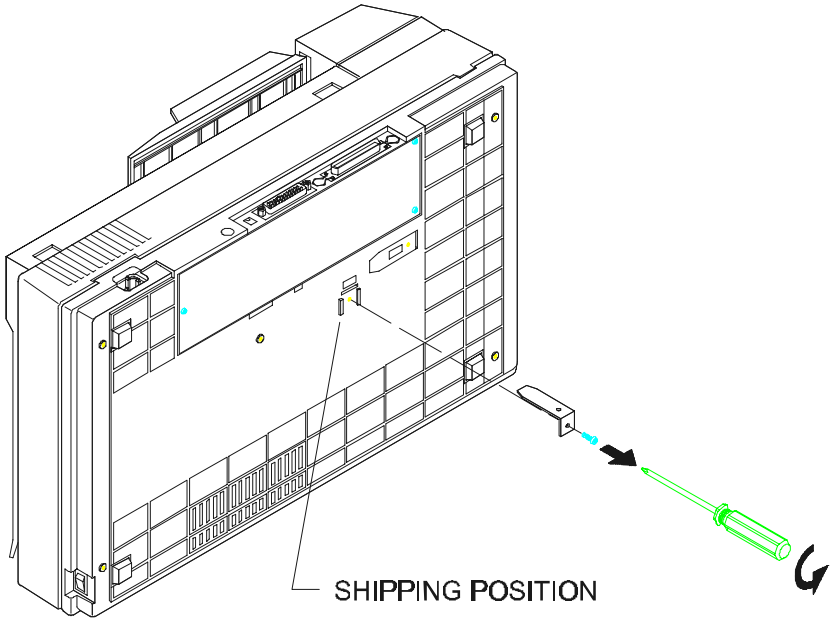

Figure 1-1 Removing the shipping retainer

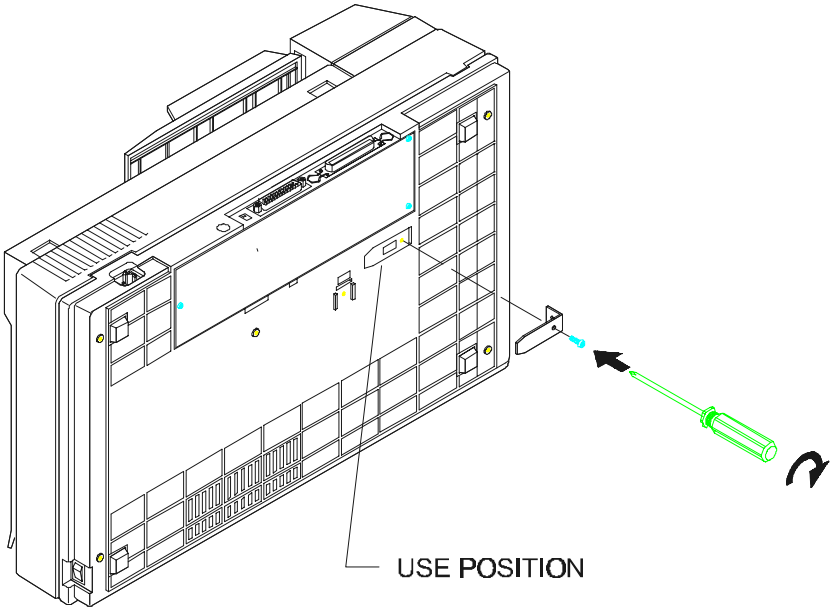

Figure 1-2 Storing the shipping retainer

Installing the Shipping Retainer

Before moving or transporting the scanner, the shipping retainer must be installed to prevent damage in shipment. Follow these instruction to install the retainer:

1. Turn off the scanner.
2. Lift the document cover so that the carrier unit can be seen
3. Turn on the scanner. The carrier unit will move forward and stop for a few seconds. **Turn off the scanner during this pause.**
4. Lay the scanner on its side as shown in Figure 1-2
5. Remove the retainer from the "use position" slot and install it in the "ship position" slot

Your scanner can now be safely transported.

Installing the ADF paper chute

1. Raise the right side of the paper chute to about 45 degrees (see Figure 1-3)
2. Pull down the wire leg from under the paper chute.
3. Insert the wire leg into the grips on the document cover.
4. To extend the length of the paper chute, gently slide out the paper chute extension

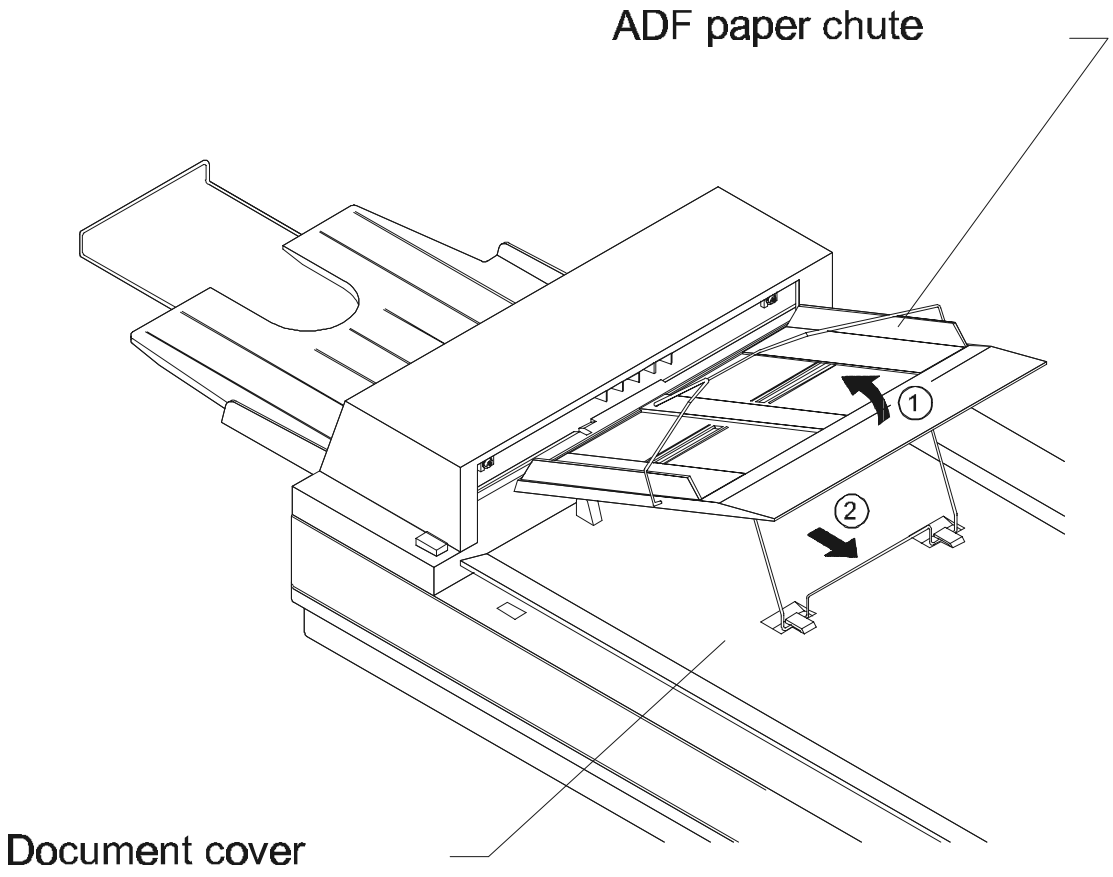

Figure 1-3 Installing the ADF paper chute

Stacker Installation

1. Hold the stacker at an approximate 30 degree angle as shown in Figure 1-4
2. Insert the stackers three clasp-joints into holes located on the ADF.
3. Release the stacker gently. Make sure the stacker is firmly attached to the ADF.
4. To extend the length of the stacker, gently pull out the stacker extension wire

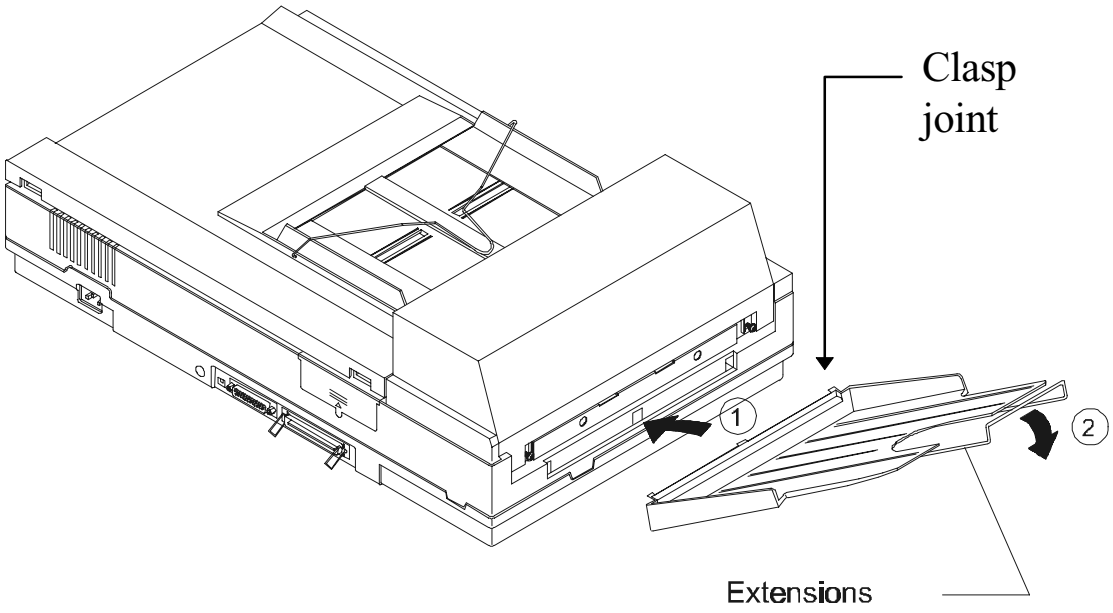

Figure 1-4 Installing the stacker

1.3 Connecting the Scanner

CAUTION:	Before connecting the scanner, make sure the power to the computer is **OFF**

This section describes how to connect your new ScanPartner 600C. Also provided is a brief overview on daisy chaining and terminating SCSI devices. If you are an advanced user and are already familiar with the use of SCSI devices, you can skip the overview.

SCSI Overview

One of the biggest advantages to using SCSI as an interface is the ability to connect several devices to one SCSI controller or "SCSI port."

Each SCSI controller can have up to 7 devices connected to it. This is referred to as *daisy chaining* or *chaining*. A SCSI chain can consist of internal devices, such as hard disks and CD ROM drives, and external devices, such as the ScanPartner 600C. Not all SCSI controllers are capable of handling a combination of internal and external devices but most are.

The key factor when chaining SCSI devices is the *device ID*. Each device **must** have a unique ID. The SCSI controller itself must have an ID and, in most cases, is 7. This leaves 0-6 available for use as device ID's. Although it is not reserved, device ID 0 is generally used for SCSI hard disks. It is not recommended that you use ID 0 for an external device.

Most SCSI devices provide a method for the user to set the device ID. This can be done via software or with a switch. In some case the operating system may decide which ID to apply to a device.

One other key factor to a SCSI daisy chain is that **each end of the chain must be *terminated***. Termination can be done many ways but the most common method is to apply a *SCSI*

terminator connector. The purpose of the terminator is to tell the controller that there are no more devices on the chain and that it should not look beyond this device for another device. Most (but not all) SCSI devices are equipped with 2 SCSI connectors: one for the connection cable and one to chain or terminate. Regardless of the methods used, each end of the chain must be terminated.

In most cases, the controller itself provides termination at one end of the chain. Termination at the other end must be provided by the last device on the chain.

Figure 1-5 shows a typical SCSI chain.

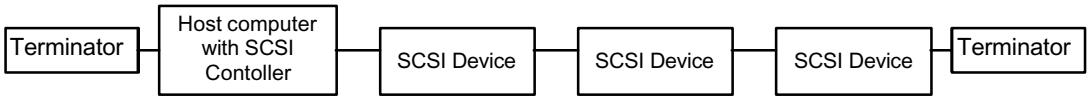

Figure 1-5 Typical SCSI Chain

Installing the SCSI Controller

For information on installing the SCSI controller, follow the instructions provided with the controller.

Setting the SCSI Device ID

When you have several devices on a SCSI chain you may need to adjust the SCSI ID selector setting located on the back of the scanner. This setting assigns a specific "device ID" to the scanner. If the assignment conflicts with an existing SCSI device, please select a new ID. (See Figure 1-6)

Note: The factory setting for ScanPartner 600C is ID 6. Usually, ID 0 is assigned to an internal hard disk drive, and ID 7 is assigned to the SCSI host adapter. ID 8 and 9 are not used.

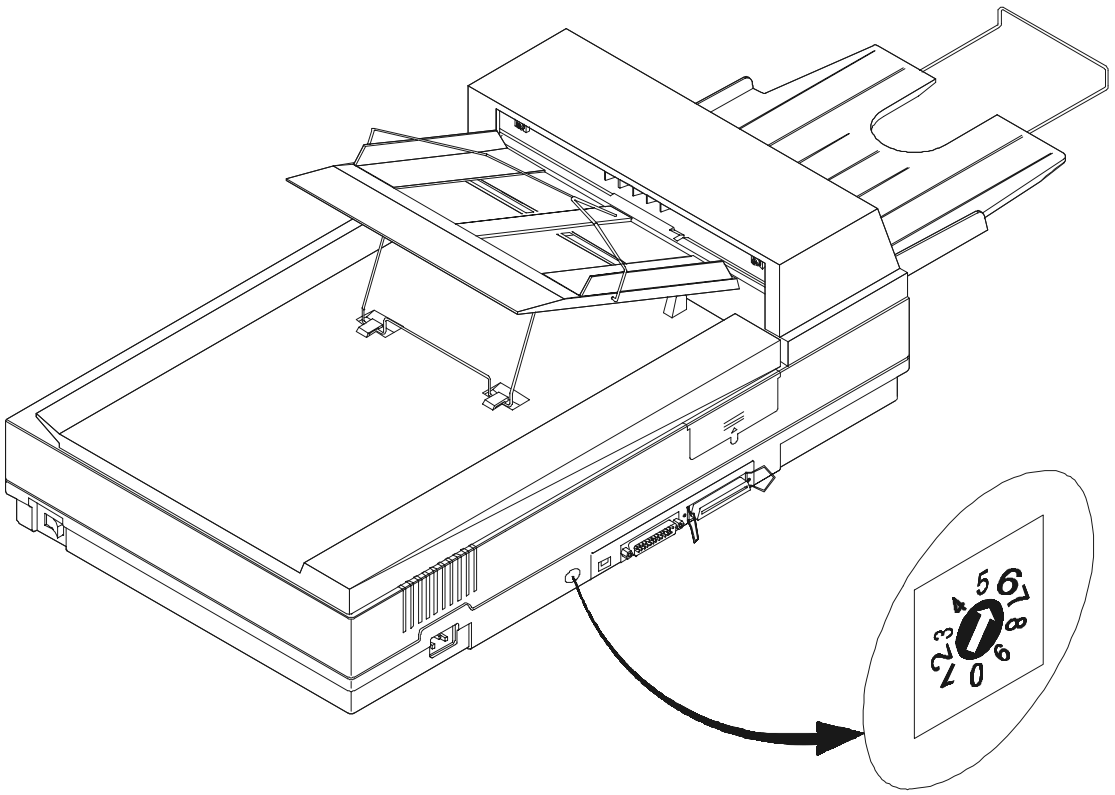

Figure 1-6 Selecting the SCSI ID

Connecting the Scanner

See Figure 1-7 for a connection diagram.

1. Connect one end of the SCSI cable to the SCSI controller installed in the computer
2. Connect the other end of the SCSI cable to SCSI port located on the back of the scanner
3. Connect the power cable to the power input port located on the back of the scanner

Plug the power cord into the power source.

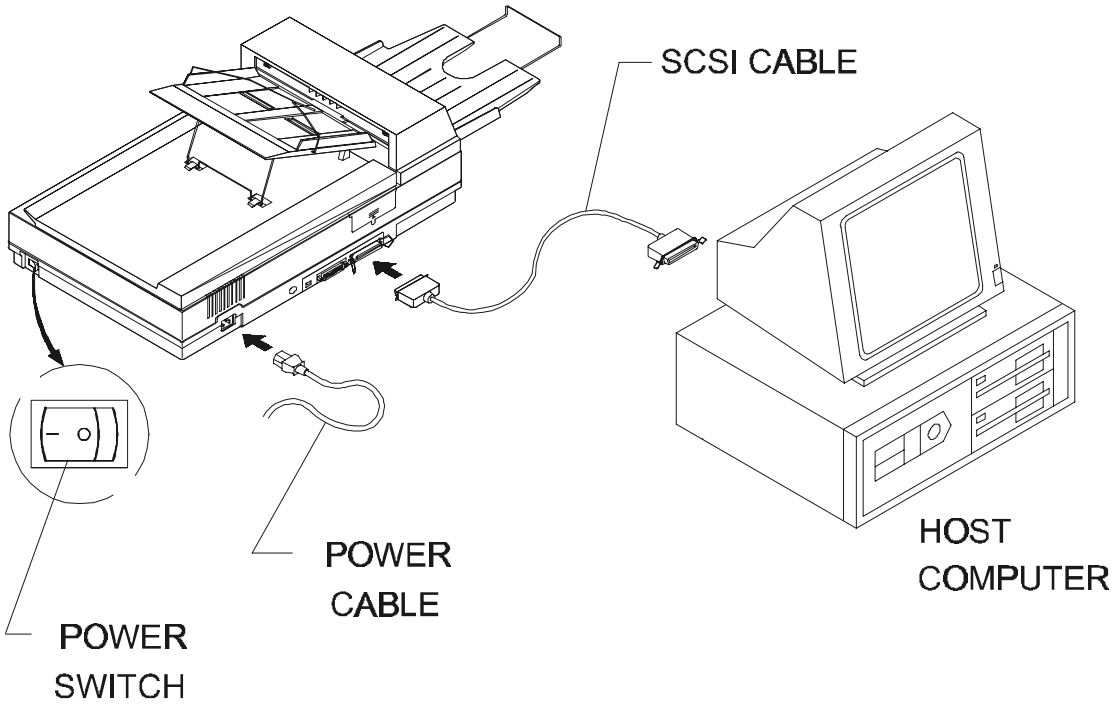

Figure 1-7 Connecting the scanner

Terminating the Scanner

As with any SCSI device, the ScanPartner 600C must be properly terminated before use. The ScanPartner 600C uses a terminator switch located on the back of the scanner, therefore a SCSI terminator is not required.

If the ScanPartner 600C is the last device on the SCSI chain then the terminator switch must be set to the **ON** position, see Figure 1-8. If the ScanPartner 600C is not the last device on the SCSI chain, the terminator switch must be set to the **OFF** position.

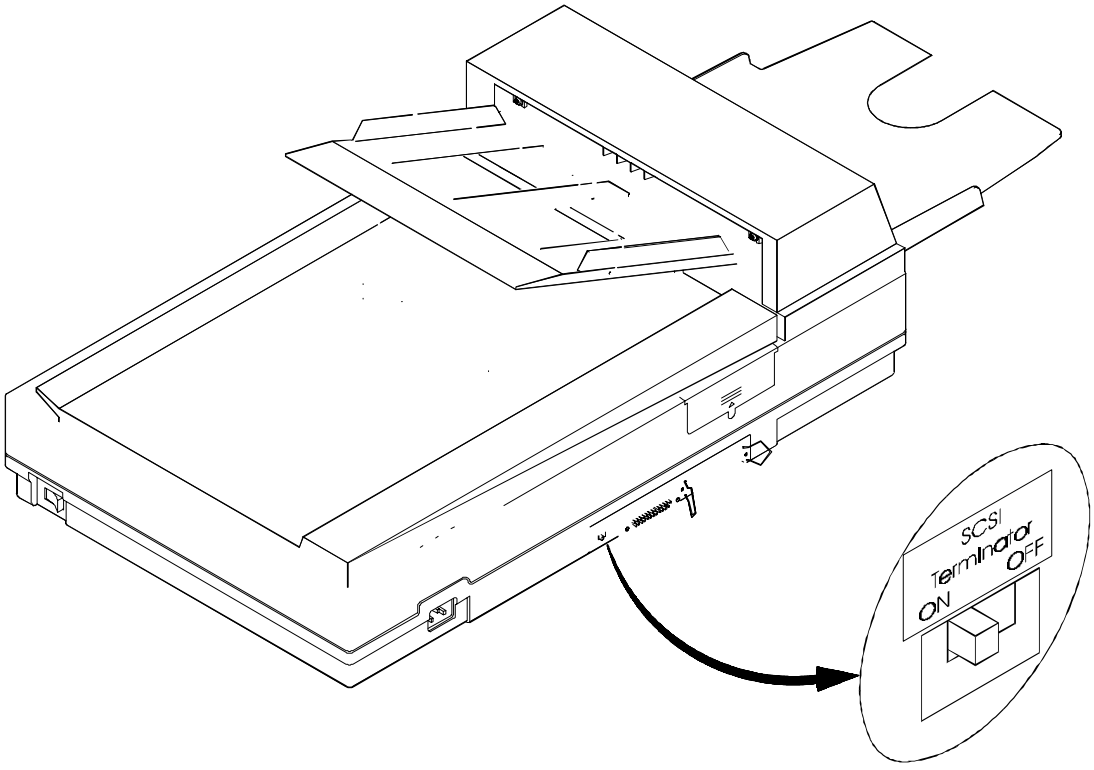

Figure 1-8 SCSI Termination Switch

Turning on the Power

The power is controlled by a toggle switch on the side of the scanner. To turn on the scanner, press the switch toward "1." The POWER LED will light. If it does not light , please check the power.

Scanner Diagnostics

The scanner has a built-in self-diagnostic function to detect system errors. The self test is initiated each time the scanner is turned on. During the test, the ERROR LED will light on. At the end of the test, if no error occurs, the ERROR LED should extinguish.

2. Scanner Operation

2.1 Using the Flatbed

To use the flatbed, open the document cover and place the documer
face down on the glass document board. Make sure the corner of the
document is placed against the reference mark

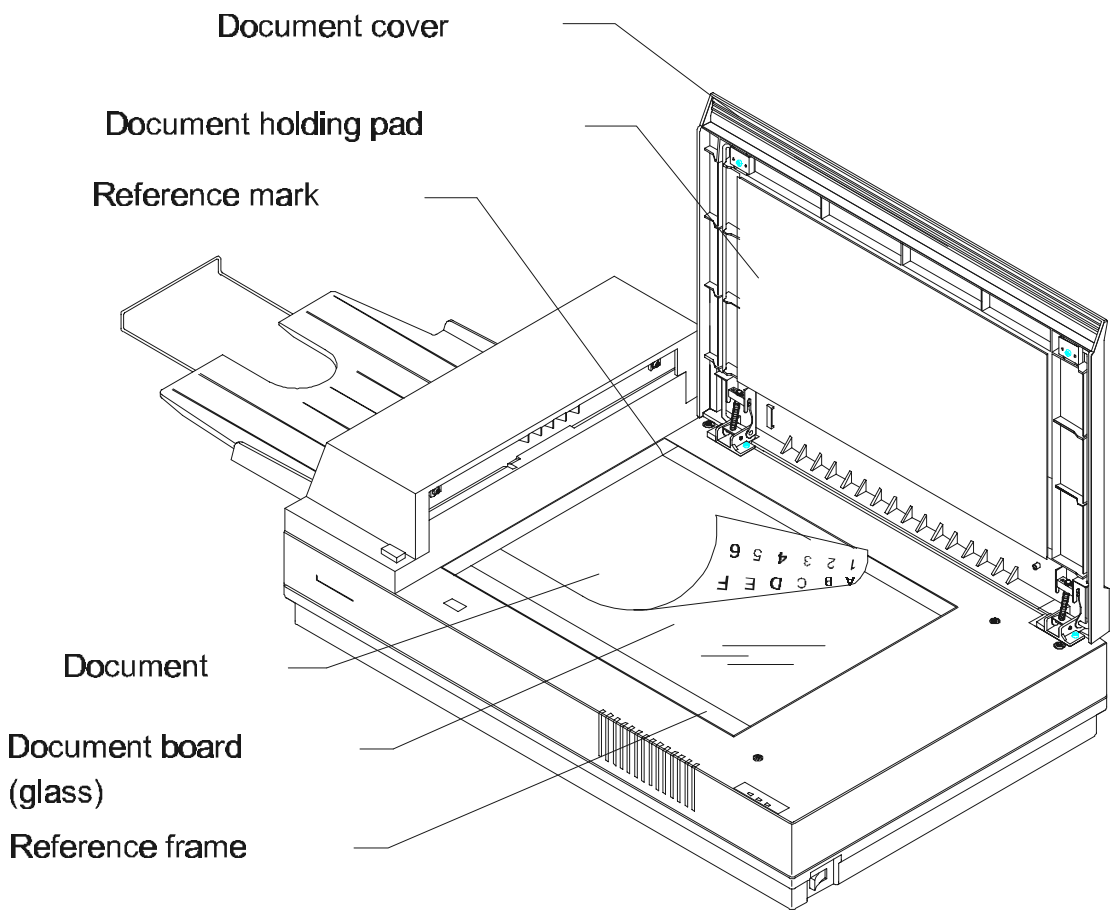

Figure 2-1 Using the flatbed

2.2 Using the ADF

The ScanPartner 600C comes equipped with ADF capable of holding up to 50 sheets of standard copier paper. The actual number of documents may vary depending on the types of paper being scanned.

The ScanPartner 600C ADF feeds one document at a time. Before using the ADF, always prepare you documents by:

- removing any staples, paper clips, or any other item used to attach more than one sheet of paper
- fan the paper stack to remove friction between pages
- ensure that stack has a flush leading edge

To use the ADF:

- adjust the document guides to the width of the documents to be scanned
- place the documents *head first and face down* into the ADF

The following list shows items and paper types that should *not* be fed through the ADF

- Paper with clip or staple attached;
- Paper with ink not totally dry;
- Paper with inconsistent thickness, such as envelopes;
- Paper with wrinkles, curls, folds or tears;
- Tracing paper;
- Coated paper;
- Carbonless paper;
- Paper narrower than 3.5" or wider than 8.5";
- Items other than papers, such as cloth, metal or

OHP film;

- Notched paper
- Paper with an odd (non-rectangular) shape;
- Very thin paper.

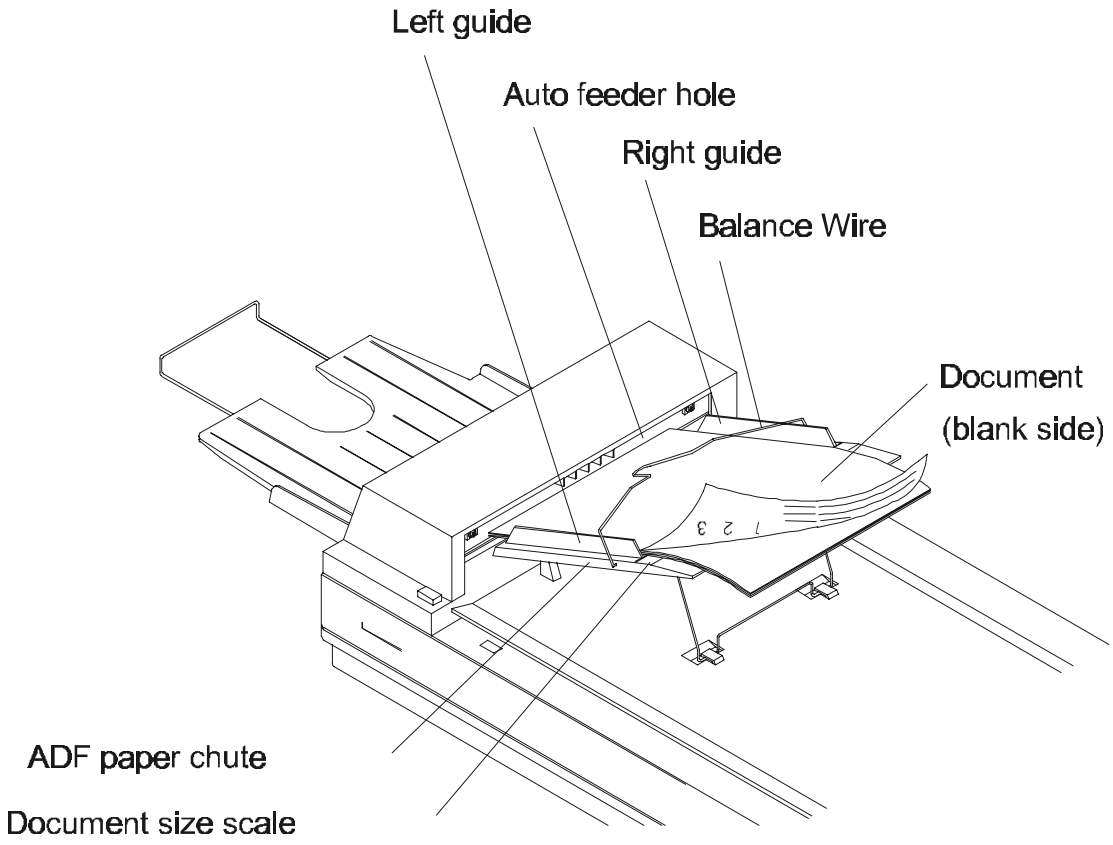

Figure 2-2 Using the ADF

3. Maintenance

Your scanner is designed to be maintenance free. However, to ensure peak performance and optimum image quality, the scanner must be cleaned occasionally.

The feed mechanism of the scanner may become contaminated with ink, toner particles or paper coatings which may result in feed problems, such as:

- Documents do not feed smoothly or easily or
- Several documents feed at one time.

If you experience these problems then it is recommended that you clean the ADF as described below.

3.1 Cleaning the ADF

Use the following procedure when cleaning your scanner (see Figure 3-1):

1. Dip a cotton swab in isopropyl alcohol. (95%)
2. Open the ADF unit and wipe the upper feeding roller by moving the swab from side to side. Rotate the roller forward with your finger and repeat the above cleaning procedures until the entire roller is cleaned. Be careful not to snag or damage the pick springs.
3. Wipe the pad in the direction from top to bottom. Be careful not to hook the pick springs.
4. Allow to dry
5. Close the ADF unit.

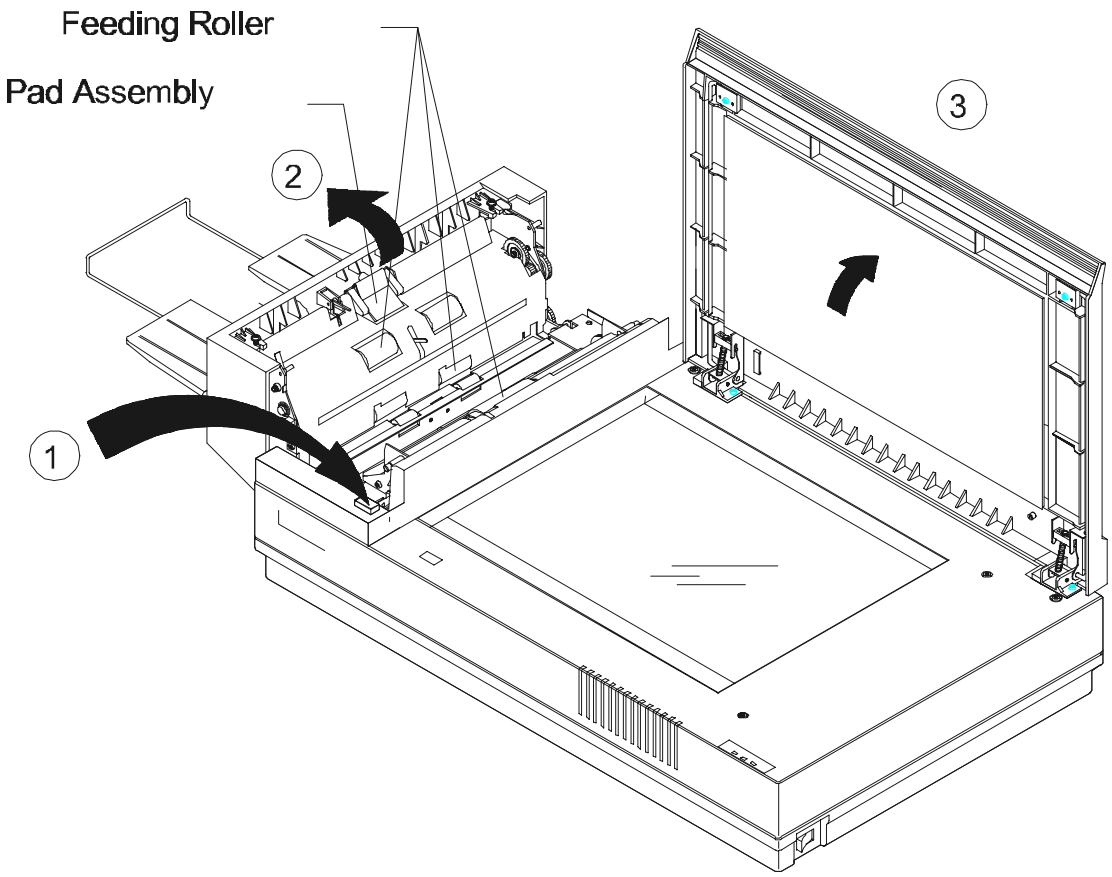

Figure 3-1 Cleaning the ADF

3.2 Cleaning the Glass

Use the following procedure to clean the glass document board:

1. Soak a cotton swab with some isopropyl alcohol. (95%)
2. Open the document cover as shown in Figure 3-2
3. Wipe the glass of flatbed area by moving the swab from side to side.
4. Allow to dry.
5. Close the document cover.

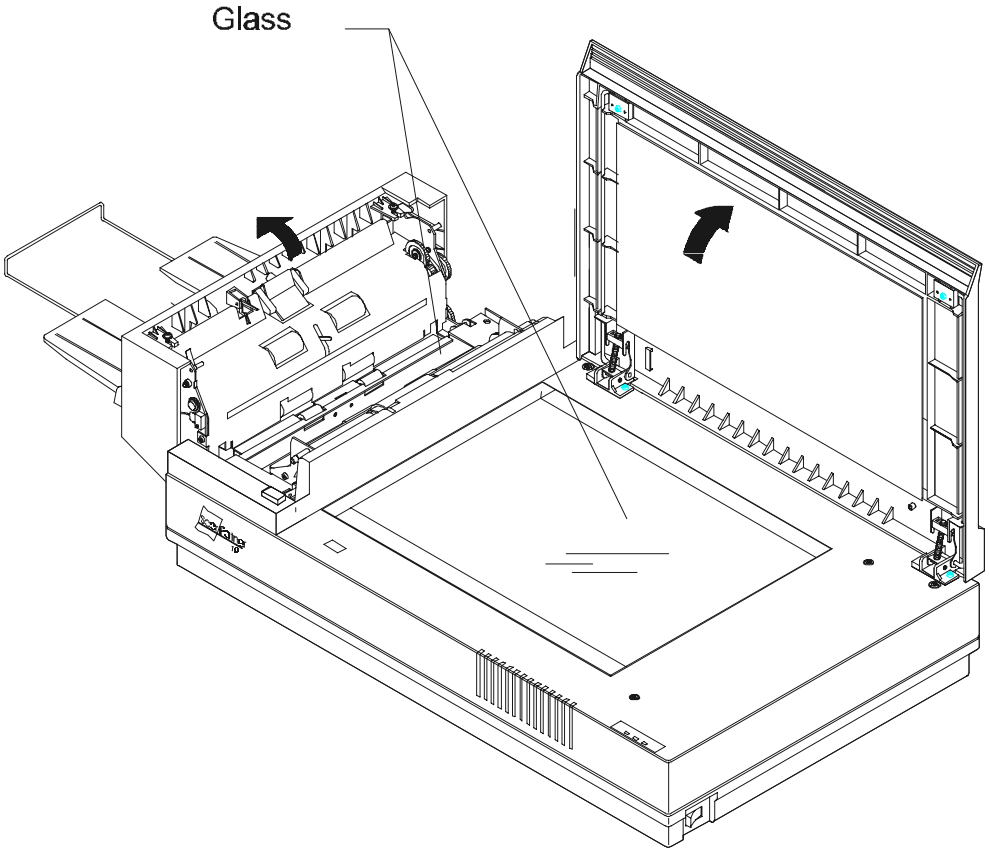

Figure 3-2 Cleaning the glass

4. Troubleshooting

The scanner will automatically perform a simple self-test each time it is turned on. This will help spot major system errors in the scanner itself.

When the self test is initiated, the ERROR LED will become lit and will remain lit for the duration of the test. When the test is complete, the ERROR LED light will go out.

If you have problems with the operation of your scanner, please check the following troubleshooting hints.

4.1 Questions and Answers

Question: The LED indicates that the scanner is ready, but the scanner does not respond to the scan command from the host computer.

Answer: Please check the signal cable is firmly seated, and invoke the scan command again. If there is still no response, please reset the scanner by turning it off and then on again, and reboot your host computer as well.

Question: Paper becomes jammed during scanning.

Answer: Open the ADF unit and carefully pull out the jammed document

Question: More than one sheet of paper was fed into the scanner.

Answer: 1) Open ADF unit.
2) Remove the multi-fed sheets of paper.
3) Close the ADF unit.
4) Flatten the corners and edges; loosen the paper before reloading it in the paper guide.

5) Check the feeding roller condition and do the cleaning if necessary.

Question: Paper becomes skewed in the scanner.
Answer: Check the condition of the feed roller and cleaning if necessary.

Question: When I power on the scanner, it makes noises and will not stand ready.
Answer: Possibilities for this condition are:
1) The shipping retainer was not removed from the bottom of the scanner or
2) The scanner is not sitting on a flat surface. This may cause the scanner to function improperly.

Question: When I power on the scanner, the lamp does not come on.
Answer: Contact your authorized local dealer or service provider.

Question: Sometimes while scanning the scanner hangs or the system crashes.
Answer: Make sure that:
1) The SCSI cable is firmly seated and
2) the SCSI bus is terminated and configured correctly.

4.2 Technical Service

Technical support for Fujitsu scanners is provided at Fujitsu Technical Assistance Center (TAC) at 1-408-894-3950 from 7 a.m. to 5 p.m. PST. Before contact with TAC, please prepare the following information.

- Scanner serial & revision number (located on the bottom of the scanner);
- Hardware configuration (e.g., your host CPU type, RAM size, free disk space, display card, interface card...);
- The name and version of your scanning software application;
- The version of your scanner driver.

5. Specifications

The following specifications for the ScanPartner 600C are subject to change without notice.

Scanner Type	Single-pass color Flatbed with ADF built-in
Scanning Mode	24-bit color 8-bit Grayscale (256 levels) Line Art/Halftone Error Diffusion (single bit)
Optical Resolution	600 * 1200 dpi
Light Source	Cold cathode fluorescent lamp
ADF Capacity	50 pages
ADF Scanning Speed	15 PPM (200dpi , B/W mode)
Scanning Document Size	ADF mode 8.5″ x 14″ Flatbed mode 8.5″ x 11.69″
Interface	SCSI-2
Drivers	TWAIN, ISIS
Power Requirement	100 to 240 Vac, 47 to 63 Hz
Power Consumption	35 watts
Humidity	20% to 80% RH
Operation Temperature	10 to 40
Storage Temperature	-10 to 50
Dimension	570 x 350 x 165 mm (WxDxH)
Weight	Approximate 26.5 lbs (12 kg)